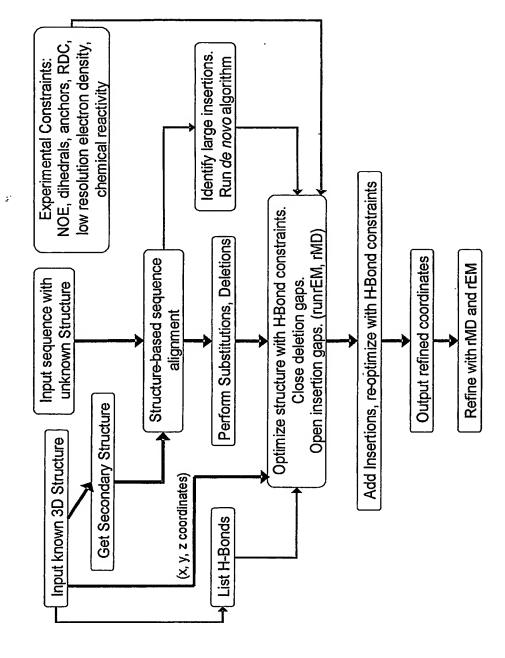


Homology Modeling
Input File Window
C:\Documents and Settings\John SantaLucia\Desktop\5S project 5-1-04\1JJ2_5S BRDWSE BRDWSE
Load information from input file 122 residues were found in input file 1
-Alignment window
JUUAGGCGGCCACAGCGGUGGGGUUGCCUCCCGUACCCAUCCCGAACACGGAAGAUAAGCCCACC
Load new sequence from the file SBSA Update Substitution List
Substitution Window - ['All Data is CASE Sensitive] Residues from input for: New Residues: Chain: UPDATE Chain: 9
Performing Chi Dihedral optimization for missing bases Donel Ouput File Window C:\Documents and Settings\John SantaLucia\Desktop\SS project 5-1-04\1JJ2 5S
added bases 5-25-04 2.PDB BROWSE
Save data in critical file END PROGRAM

FIGURE





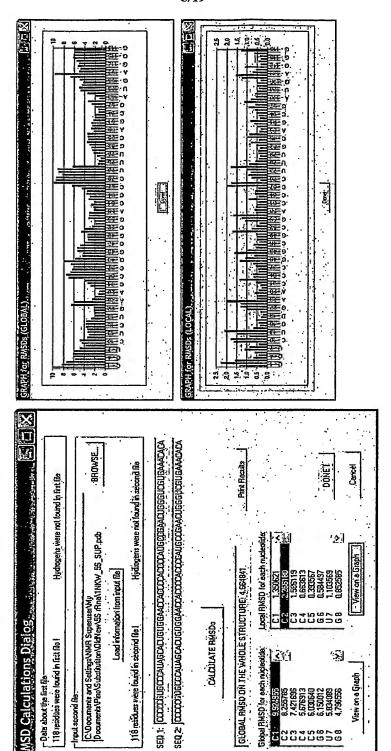
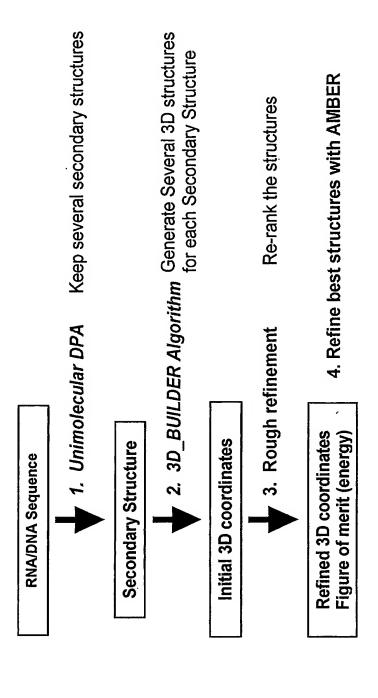
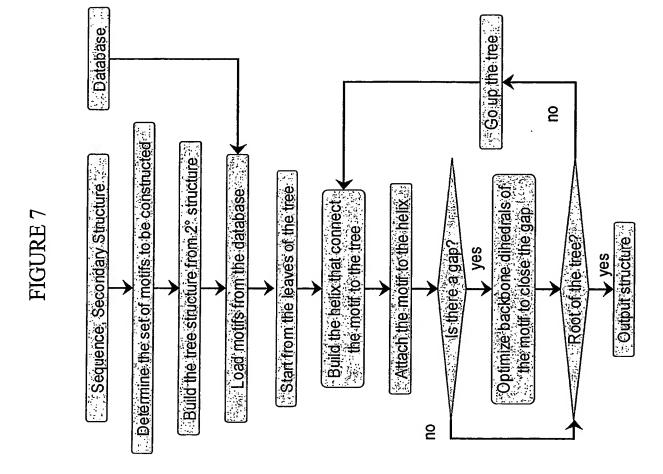
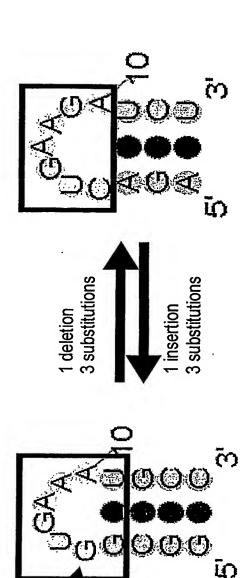


FIGURE (





FIGURE





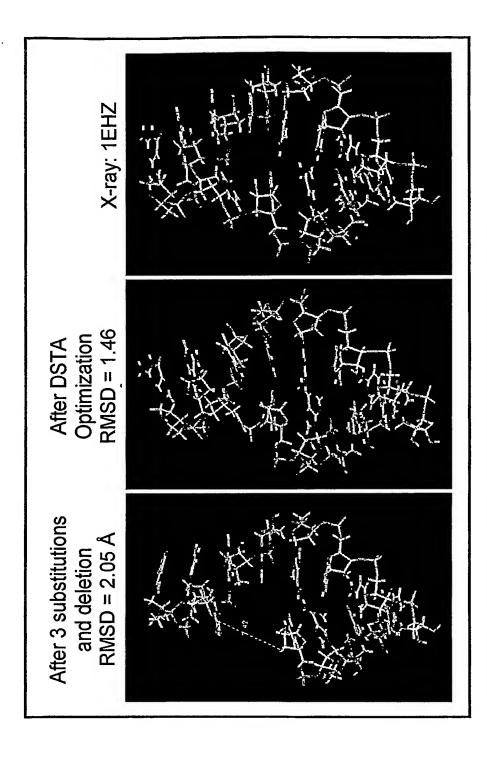
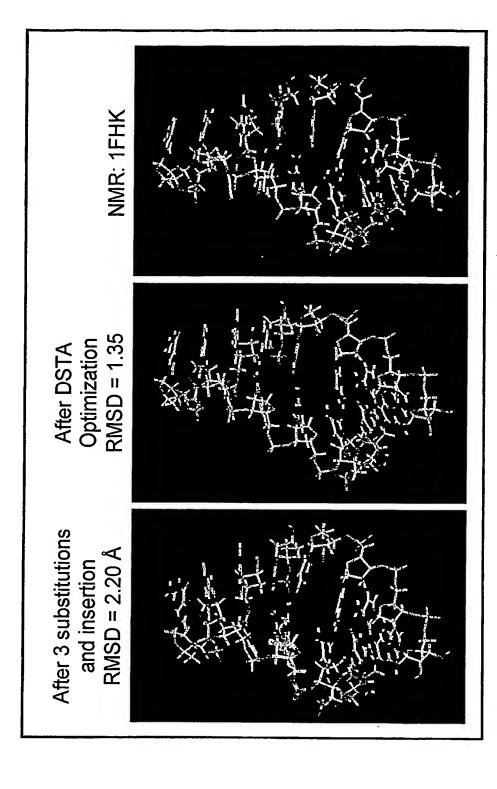


FIGURE 1(



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48.85 48.85 48.85 48.85 48.85 48.85 48.85 48.85 48.85 48.85 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 84.459 87.534 88.009 86.615 86.387 87.402 88.486 87.935 85.023 84.137 85.722 86.901 138.159 140.934 138.098 141.430 140.026 138.842 139.347 138.237 140.097 138.592 = -2.11876 radians 04'-C1'-N9 bond angle = 1.90932 radians -39.580 -37.842 -42.207 -40.085 -39.275 -39.142 -37.898 -43.221 -41.357 -41.551 -41.069 -37.815 Chi DIHEDRAL = -3.10169 radians 0 330 330 330 330 330 330 330 330 330 C4'-04'-C1'-N9 DIHEDRAL 0 0 0 0 0 0 טטט ບ **C**2 02P **C4*** 440 02* 6145 6146 6149 6155 6156 Resolution: 6147 6148 6150 6152 6153 6154 6151 ATOM ATOM

FIGURE 1

3 CUCAG, CUAAG

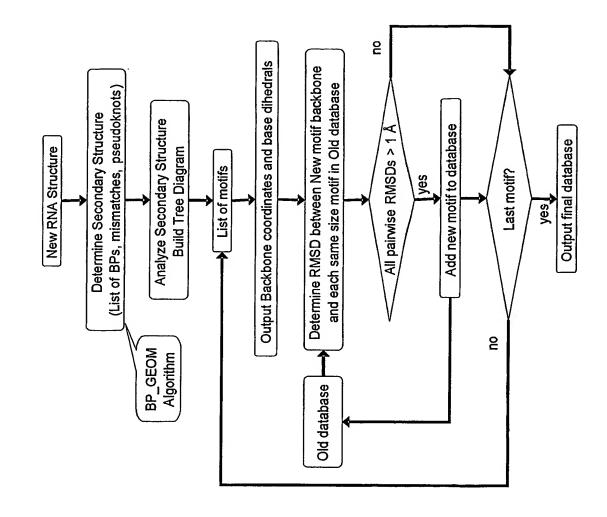
Sequences:

Positions 331-333

Hairpin

Motif type: Motif size:





le 1: S	Table 1: Structured Motif Database	Notif Databa	ase							
irgi	Hairpins ^{a, b,c,d,e}	Bulge	Bulges ^{b,c,d,e}	Internal L	Internal Loops ^{b,c,d,e}	Internal L	Internal Loops ^{b,c,d,e}	Mu	Multiloops	
Length	Number	Length	Number	Length	Number	Length	Number	stems	Number	
3	9	1	31	1x1	42	3x9	-	က	55	
4	22	2	15	1x2	18	4x4	9	4	28	
5	23	3	-	1x3	12	4x5	15	5	11	
9	20	4	0	1x4	ω	4x6	က	9	4	
	26	5	0	1x5	1	4x7	က	7	2	
8	23	9	2	2x2	13	5x5	9	11	1	
6	16	7	0	2x3	15	5x6	12			
9	11	æ	0	2x4	7	5x7	7			
1	8	6	_	2x5	2	5x8	5			
12	9			2x6	2	9x9	4			
3	4			2x7	-	6x7	4			
14	0			3x3	17	7x7	က			
15	5			3x4	1	other	24			_
19	-			3x5	5					
				3x6	4					
				3x7	5					
rences	References for crystal structures	structures								
a 1EHZ tRNAphe	Aphe									
R2 gro	b 1HR2 group I intron									
E 16S	c 1J5E 16S rRNA The	Thermus thermophilus	nophilus							
2 23S	d 1JJ2 23S rRNA Halo	laloarcula marismortui	ismortui							
<w 23<="" b=""></w>	e 1NKW 23S rRNA De	einococcus	Deinococcus Radiodurans	SI						
										-



